

## **ABSTRACT**

An extracorporeal blood processing system is disclosed which includes a variety of novel components and which may be operated in accordance with a variety of novel methodologies. For instance, the system includes a graphical operator interface which directs the operator through various aspects of the apheresis procedure. Moreover, the system also includes a variety of features relating to loading a blood processing vessel into a blood processing channel and removing the same after completion of the procedure. Furthermore, the system also includes a variety of features relating to utilizing a blood priming of at least portions of the apheresis system in preparation for the procedure. In addition, the system includes a variety of features enhancing the performance of the apheresis system, including the interrelationship between the blood processing vessel and the blood processing channel and the utilization of high packing factors for the procedure.